



Hunters Point Parcel F Radiological Update

Hunters Point Naval Shipyard
BCT Meeting
April 25, 2013



Overview



Radiological Project Overview for Parcel F

- Historical Radiological Assessment (HRA) for the HPNS conducted in 2004; the HRA
 - covered / investigated radiological activities from 1939 – 2003;
 - evaluated the practices and level of knowledge at the time activities took place;
 - identified areas where radiological materials “could” be present so that surveys could be conducted and, where necessary, appropriate cleanup work executed;
 - recommended areas in the vicinity of all areas of decontamination activities and areas containing outfall discharge from SD/SS be investigated (Parcel F); and
 - recommended performing scoping surveys in areas of OPERATION CROSSROADS decon activities and outfalls.
- Navy is executing the radiological program for Parcel F in accordance with the HRA recommendations



Previous Radiological Actions



- In 2009, Phase I detected 10 locations above the PALs throughout Parcel F
 - 186 samples collected in Phase 1 (See Slide 5)
- In 2011, the Navy performed a data gap investigation Phase 2a in the area near Parcel B to further investigate areas of potential radiological contamination. Only a portion of Parcel F was funded to assist with the future actions in Parcel B.
- The Phase 2a investigation found no additional areas of radiological contamination that were above the PAL. Three Phase I areas are reported to exceed the PALs in the Tech Memo. The Phase I samples were screened at NWT and later discovered to be biased high.
 - Final Phase 2a Tech Memo issued April 19, 2013
- In 2012, the Navy began the second phase of the study called Phase 2b. Phase 2b sampled the rest of the base and ALSO re-sampled the previous NWT exceedance locations from the Phase I study.
- In April 2013, Phase 2b Data Gap Investigation field work effort is finalized. Data was validated and evaluated this week.



Parcel F Phase 2B Findings



- Phase 1 samples pulled from archive and re-analyzed at Test America. Only 8 of 10 locations could be submitted
 - Re-analyses of 8 Phase 1 cores = all below PALs
 - Re-sampling of other 2 Phase 1 core locations = all below PALs
- Completed other scoped sediment coring at 141 locations along entire length of Parcel F.
 - 670 Phase 2b samples = all below PALs
- Based on re-analyses Phase 1 cores, re-sampling in Phase 1 locations, additional data from Phase 2a and 2b (1,063 samples) the Navy has no detections above the PALs for Parcel F!



Phase I Sample Locations and PAL Exceedances

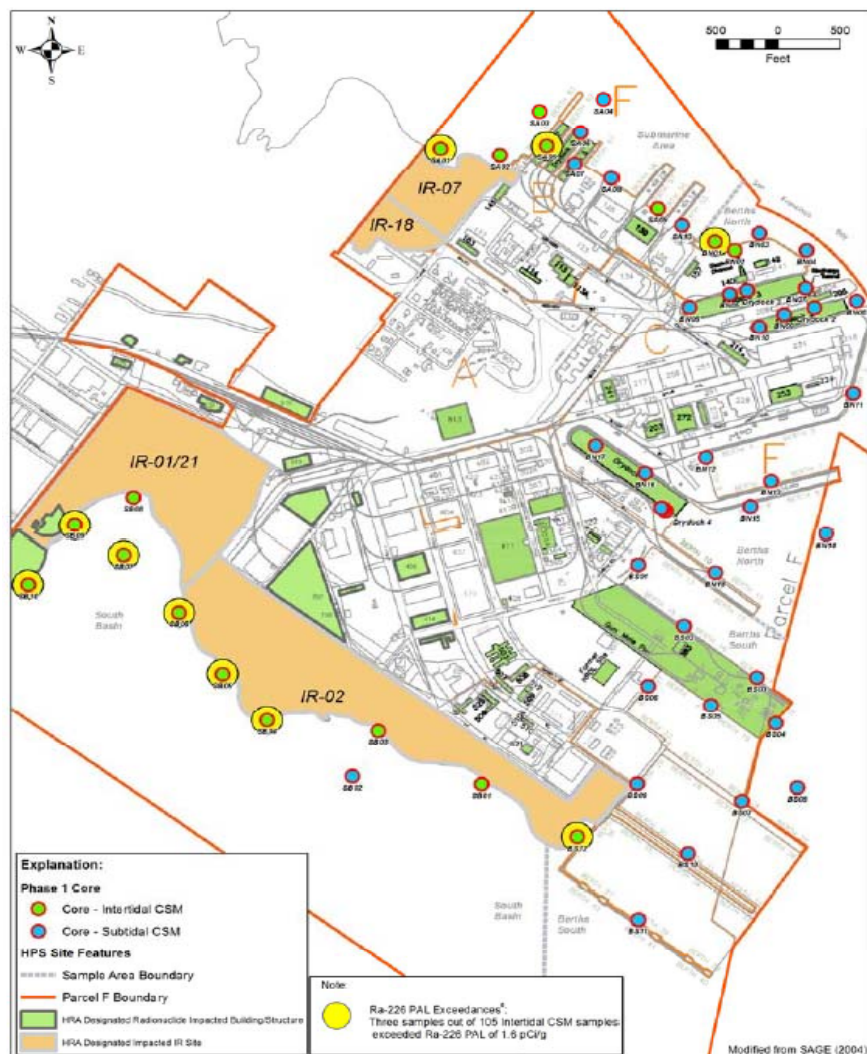
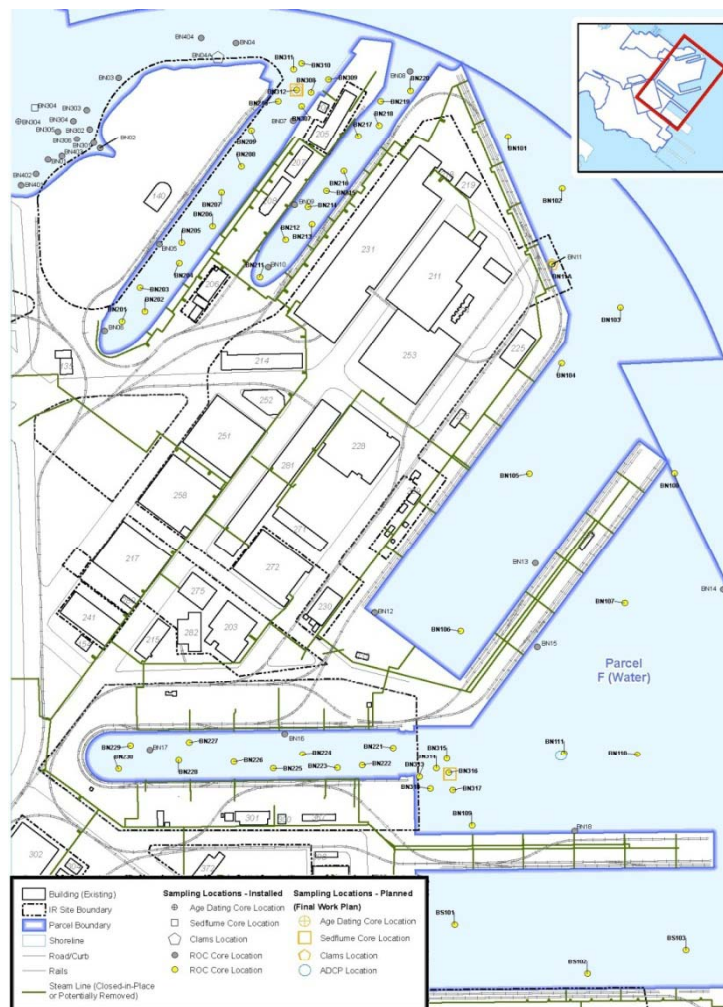


Table 3-9. Sediment Samples Exceeding the Intertidal CSM PAL for Ra-226 (Phase 1, All Parcel F)

Area	Location	Core Segment	Result (pCi/g)	Ra-226 Intertidal CSM PAL (pCi/g)	% of PAL (pCi/g) (Max Value)
Submarine	SA01	2-3ft	1.8229	1.604	114%
	SA05	0-1ft	2.2391		140%
Berths North	BN01	1-2ft	2.4894		155%
Berths South	BS12	0-1ft	2.0067		125%
		1-2ft	1.6891		105%
South Basin	SB04	0-1ft	1.7069		106%
		2-3ft	1.9570		122%
	SB05	1-2ft	1.7422		109%
		3-4ft	1.6375		102%
	SB06	0-1ft	1.9904		124%
	SB07	3-4ft	1.7032		106%
	SB09	0-1ft	2.5757		161%
		2-3ft	1.7478		109%
	SB10	3-4ft	2.6064		162%
		3-4ft	2.4314		152%

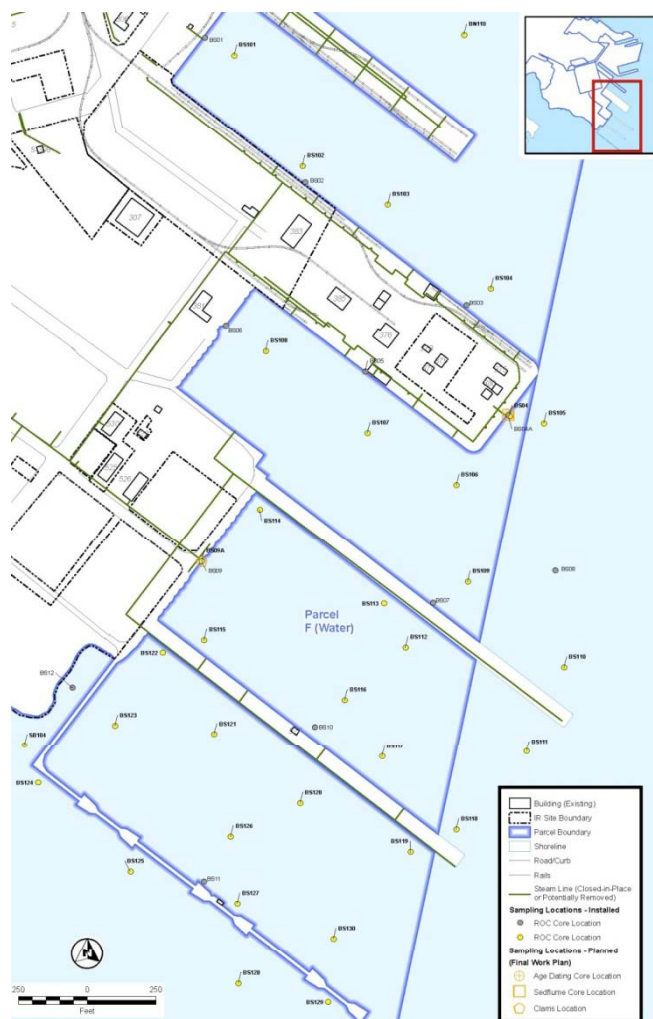


Berths North Area Sample Locations



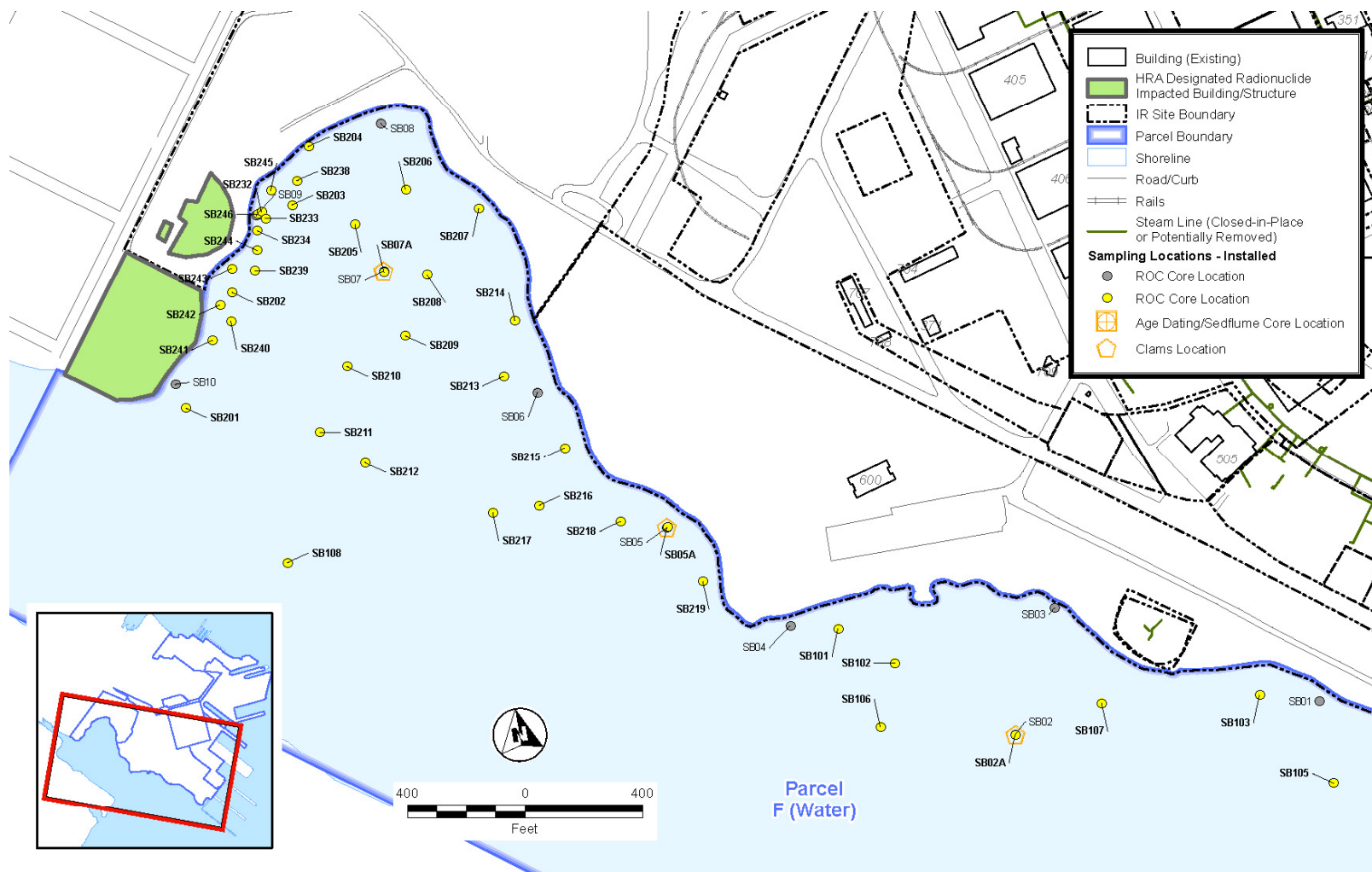


Berth South Area Sample Locations



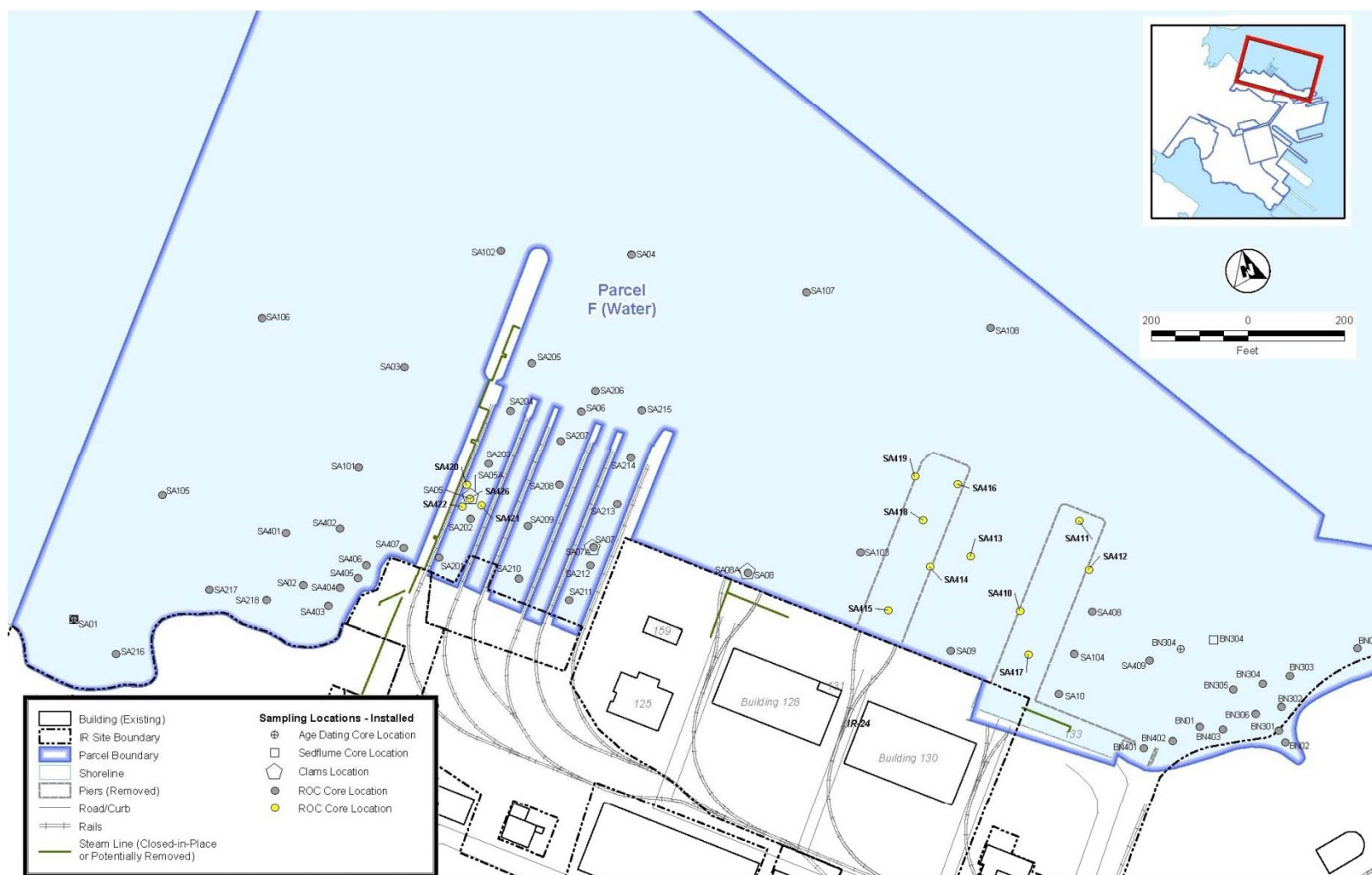


South Basin Area Sample Locations





Submarine Area Sample Locations





Thoughts on Parcel F Radiological Approach – Path Forward



- Provide Phase 2b Technical Memorandum to BCT for Review and Comment
- Begin dialogue among the BCT on redefining the radiological categorization of Parcel F since follow-on investigated efforts, recommend by the HRA
- Document any possible actions in the Draft the Feasibility Study (FS) Rad Addendum
- Parcel F FS cost analysis excludes red screening
- Determine a protocol for handling the sediment excavated during the remediation of Point Avisadero (Area III) and South Basin (Area X and a small portion of Area IX)
- Eliminate/shrink Parcel F impacted areas



Tentative Schedule for Parcel F FS Rad Addendum



Action	Tentative Date
Draft Phase 2b Tech Memo	June 2013
Final Phase 2b Tech Memo	August 2013
Draft FS Rad Addendum	September 2013
Finalize FS Rad Addendum	February 2014
Draft Proposed Plan for BCT	March 2014
Submit Final Proposed Plan to BCT / Public	June 2014
Draft ROD	October 2014
Finalize ROD	January 2015



Comments, Questions, Concerns ???